

STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 100621

TO: Marina Lamm
Location: CM1/2D15/2D19
Art Unit: 1616
Monday, August 11, 2003

Case Serial Number: 10/088059

From : Susan Hanley
Location: Biotech-Chem Library
CM1 6B05
Phone: 305-4053

susan.hanley@uspto.gov

Search Notes

WEST Search History

10/088, 059

DATE: Thursday, August 21, 2003

Set Name Query
side by side

Hit Count Set Name
result set

DB=JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L14 L13 and (cyclopent\$7 or cycloalkyl) 4 L14

L13 L12 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3) or hairdye) 63 L13

L12 nitro adj3 phenylenediamine 103 L12

DB=PGPB; PLUR=YES; OP=ADJ

L11 nitro adj3 phenylenediamine 0 L11

DB=USPT; PLUR=YES; OP=ADJ

L10 l8 and ((substantive or direct) near3 (\$4dye or dying or color\$3 or tint\$3 or dyestuff)) 20 L10

L9 l8 and (substantive or direct) 37 L9

L8 L7 not l3 43 L8

L7 L6 and cationic polymer 54 L7

L6 L1 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3) or hairdye) 174 L6

L5 L2 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3 or dyestuff) or hairdye) 10 L5

L4 L2 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3 or dyestuff) or hairdye) 10 L4

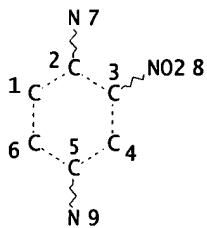
L3 L2 and ((hair or keratin) near3 (dye or dying or color\$3 or tint\$3) or hairdye) 15 L3

L2 L1 and (cyclopent\$7 or cycloalkyl) 114 L2

L1 nitro adj3 phenylenediamine 446 L1

END OF SEARCH HISTORY

=> d que 149
 L29 STR parent STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 9

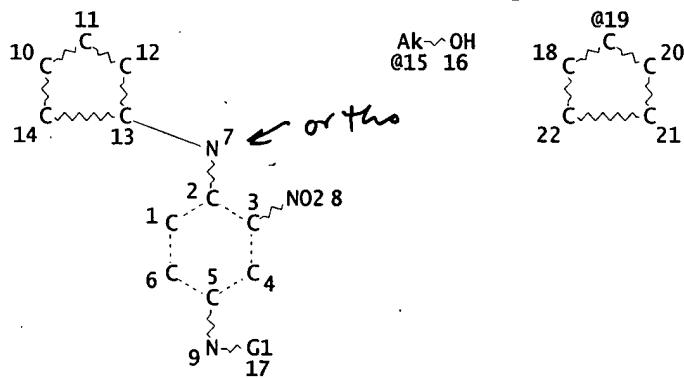
STEREO ATTRIBUTES: NONE

L30 105244 SEA FILE=REGISTRY ABB=ON PLU=ON 46.150.18/RID AND 16.127.1/RI

D

L32 747 SEA FILE=REGISTRY SUB=L30 SSS FUL L29

L40 STR subset STR ①



VAR G1=H/15/19

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 15

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 22

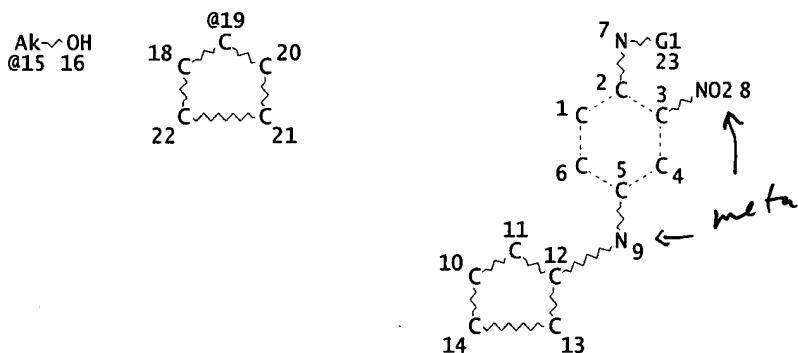
STEREO ATTRIBUTES: NONE

L42 1 SEA FILE=REGISTRY SUB=L32 SSS FUL L40

L43 STR

1 cpd

subset 2



VAR G1=H/15/19

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 15

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L44 2 SEA FILE=REGISTRY SUB=L32 SSS FUL L43 2 cpls
 L45 1 SEA FILE=CAPLUS ABB=ON PLU=ON L42 1 cite
 L47 1 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT S/ELS no sulfur
 L48 3 SEA FILE=CAPLUS ABB=ON PLU=ON L47 3 cites
 L49 4 SEA FILE=CAPLUS ABB=ON PLU=ON L45 OR L48 4 cites total

=> d ibib abs hitstr 149 1-4

L49 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:207824 CAPLUS

DOCUMENT NUMBER: 134:242399

TITLE: Hair coloring preparations based on

2-nitro-p-phenylene-derivative direct dyes

INVENTOR(S): Naumann, Frank; Rose, David; Meinigke, Bernd; Hoeffkes, Horst

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

SOURCE: Ger. Offen., 10 pp.

CODEN: GWXXBX

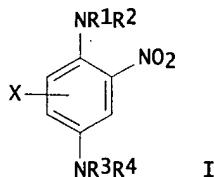
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19944527	A1	20010322	DE 1999-19944527	19990917
WO 2001021143	A1	20010329	WO 2000-EP8773	20000908
W: AU, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1212031	A1	20020612	EP 2000-964141	20000908
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRIORITY APPLN. INFO.:			DE 1999-19944527 A	19990917
			WO 2000-EP8773	W 20000908
OTHER SOURCE(S):		MARPAT 134:242399		
GI				

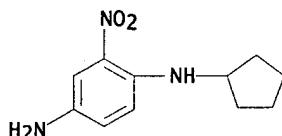


AB The invention concerns hair coloring formulations that contain direct dyes and at least one of the dyes is a 2-nitro-p-phenylene-deriv. (I), where R1-R4 = H, C1-C4 hydroxyalkyl, C5-ring satd., unsatd., substituted and at least one of R1-R4 is from the C5-ring group; X = H, halogen; the dyes shift the color to read. The compns. further include developers, coupling agents and can also include other direct dyes. The compns. do not contain oxidative dye precursors. Thus 1-(N-cyclopentylamino)-4-amino-2-nitrobenzene was prep'd. and used in a two-component compn. Depending on the required hair shade it was combined with other dyes, e.g. HC Blue No.2. in component B along with (in g) ammonium sulfate 1, water to 100, ammonia to pH = 9. Component A contained in g: cetearyl alc. 1.00; coco fatty alcs. 1.00; Akypo RLM45N 1.10; p-hydroxybenzoic acid Pr ester 0.05; p-hydroxybenzoic acid Me ester 0.15; water to 70.

IT 330456-76-3P
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (hair coloring preps. based on 2-nitro-p-phenylene-deriv. direct dyes)

RN 330456-76-3 CAPLUS

CN 1,4-Benzenediamine, N1-cyclopentyl-2-nitro- (9CI) (CA INDEX NAME)

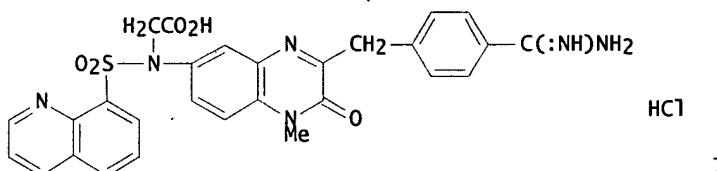


L49 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1999:684278 CAPLUS
 DOCUMENT NUMBER: 131:286541
 TITLE: Bicyclic heterocyclic compds. for use as thrombin inhibitors
 INVENTOR(S): Ries, Uwe; Hauel, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
 SOURCE: Ger. Offen., 62 pp.
 CODEN: GwXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19816983	A1	19991021	DE 1998-19816983	19980417
US 6200976	B1	20010313	US 1999-280248	19990329
CA 2323606	AA	19991028	CA 1999-2323606	19990413
WO 9954313	A1	19991028	WO 1999-EP2464	19990413
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,				

MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
 TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD,
 RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 AU 9940303 A1 19991108 AU 1999-40303 19990413
 EP 1071669 A1 20010131 EP 1999-923410 19990413
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 JP 2002512234 T2 20020423 JP 2000-544652 19990413
 PRIORITY APPLN. INFO.: DE 1998-19816983 A 19980417
 US 1998-88175P P 19980605
 WO 1999-EP2464 W 19990413

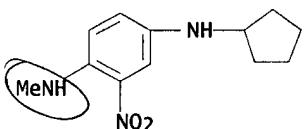
OTHER SOURCE(S): MARPAT 131:286541
GI



AB Heterocyclic compds. R-Het-A-Ar-R1 [A = O, S, CF₂, CO, SO, SO₂, NR₂ (R = H, alkyl), carboxyalkyl, alkoxy carbonylalkyl; Ar = phylene, naphthylene, thiylene, thiazolylen, pyridylene, pyrimidinylene, pyrazinylene, pyridazinylene which may be further substituted; Het = 1-alkyl-2-oxo-1,2-dihydrothieno[2,3-b]pyrazinylene, quinolinylene, isoquinolinylene, quinazolinylene, phthalazinylene, cinnolinylene, quinoxalinylene which may be further substituted or partially hydrated; R = H, F, Cl, Br, NO₂, (un)substituted aliph., NH₂, NHOH, Ph, tetrazolyl, imidazolyl, SO₂Ph, cycloalkyl, cycloalkenyl; R1 = CN, (un)substituted amidino] were prep'd. for use as thrombin inhibitors. Thus, the benzamidine I increased the aPTT time by 200% at 0.950 μ M.

IT 236417-97-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of bicyclic heterocyclic compds. for use as thrombin inhibitor)

RN 236417-97-3 CAPLUS
CN 1,4-Benzenediamine, N4-cyclopentyl-N1-methyl-2-nitro- (9CI) (CA INDEX NAME)



L49 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1999:511140 CAPLUS
DOCUMENT NUMBER: 131:157771
TITLE: Preparation of five-membered, benzo-condensed heterocycles as antithrombotics
INVENTOR(S): Ries, Uwe; Hauel, Norbert; Mihm, Gerhard; Priepke, Henning; Binder, Klaus; Stassen, Jean Marie; Wienen, Wolfgang; Zimmermann, Rainer
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Kg, Germany
SOURCE: PCT Int. Appl., 250 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

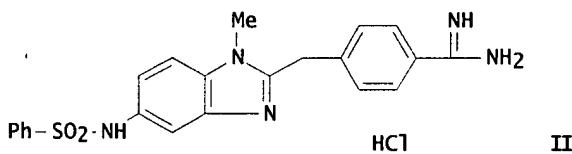
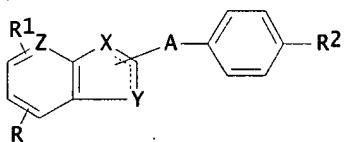
German

FAMILY ACC. NUM. COUNT:

2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9940072	A1	19990812	WO 1999-EP537	19990128
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19804085	A1	19990805	DE 1998-19804085	19980203
DE 19834325	A1	20000217	DE 1998-19834325	19980730
CA 2319494	AA	19990812	CA 1999-2319494	19990128
AU 9927201	A1	19990823	AU 1999-27201	19990128
EP 1060166	A1	20001220	EP 1999-907437	19990128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002502844	T2	20020129	JP 2000-530502	19990128
PRIORITY APPLN. INFO.:			DE 1998-19804085 A	19980203
			DE 1998-19834325 A	19980730
			WO 1999-EP537 W	19990128

OTHER SOURCE(S): MARPAT 131:157771
GI

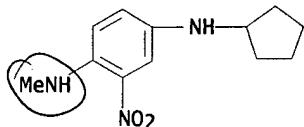
AB Title compds. [I; R = 5-C6H5SO2NH, 6-C6H5SO2NH, 5-C6H5NHSO2, 5-C6H5SO2N(CH2COOEt), 5-C6H5SO2N(CH3), 5-C6H5N(CH2CH2CH2COOEt)CO, 5-C6H5, CH3N(C6H5)CO, 8; R1 = H, 7-CH3, 3-Br, 3-EtO; R2 = C(:NH)NH2; A = CH2, NH; X = CH, MeN, EtOCOCH2CH2N, O, S, NCH2CO2H; Y = N, CH, CH:CH; Z = CH, N; dotted bond = single, double in relation to X; A is attached at 2, or 8 position depending on the heterocyclic ring] and their tautomers, stereoisomers, mixts. and their physiol. compatible salts with inorg. or org. acids or bases are prep'd. and title compds in which R2 is a cyano group, present valuable intermediate products for the prodn. of the remaining compds. of the general formula I, with R2 is amidino, which have valuable pharmacol. properties, esp. an antithrombotic activity. Thus, the title compd. II was prep'd.

IT 236417-97-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prep. of five-membered benzo-condensed heterocycles as
antithrombotics)

RN 236417-97-3 CAPLUS
 CN 1,4-Benzenediamine, N4-cyclopentyl-N1-methyl-2-nitro- (9CI) (CA INDEX
 NAME)



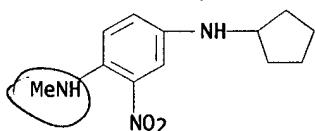
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L49 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1999:505930 CAPLUS
 DOCUMENT NUMBER: 131:157761
 TITLE: 5-Membered heterocyclic condensed benzo derivatives,
 their preparation, and their use as drugs
 INVENTOR(S): Ries, Uwe; Hauel, Norbert; Mihm, Gerhard; Pripke,
 Henning; Binder, Klaus; Stassen, Jean Marie; Wienen,
 Wolfgang; Zimmermann, Rainer
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
 SOURCE: Ger. Offen., 94 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19804085	A1	19990805	DE 1998-19804085	19980203
CA 2319494	AA	19990812	CA 1999-2319494	19990128
WO 9940072	A1	19990812	WO 1999-EP537	19990128
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AU 9927201	A1	19990823	AU 1999-27201	19990128
EP 1060166	A1	20001220	EP 1999-907437	19990128
			R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO	
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US 6114532	A	20000905	US 1999-243200	19990202
PRIORITY APPLN. INFO.:			DE 1998-19804085 A	19980203
			US 1998-77694P P	19980312
			DE 1998-19834325 A	19980730
			WO 1999-EP537 W	19990128

OTHER SOURCE(S): MARPAT 131:157761
 AB Approx. 300 antithrombotic title compds. such as 4-[5-[N-(8-
 quinolylsulfonyl)-N-(carboxymethyl)amino]-1-methyl-1H-benzimidazol-2-
 ylmethyl]benzamidine hydrochloride (I), 4-[5-[N-(benzenesulfonyl)-N-[2-
 (dimethylamino)ethyl]amino]-1-benzyl-1H-benzimidazol-2-
 ylmethyl]benzamidine dihydrochloride, 4-[5-[N-(3-carboxypropionyl)-N-
 (cyclopentyl)amino]-1-methyl-1H-benzimidazol-2-ylmethyl]benzamidine
 hydrochloride (II), and 4-[5-[N-(8-quinolylsulfonyl)-N-
 (carboxymethyl)amino]-1-methyl-1H-benzothiazol-2-ylmethyl]benzamidine
 hydrochloride were prep'd. by std. methods. The ED200 in μ M for I was
 0.92 and for II was 0.82. Formulations for the antithrombotics were

given.
IT 236417-97-3P, N-Cyclopentyl-4-methylamino-3-nitroaniline
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (prepn. and antithrombotic activity of benzimidazolylmethylbenzamidines
)
RN 236417-97-3 CAPLUS
CN 1,4-Benzenediamine, N4-cyclopentyl-N1-methyl-2-nitro- (9CI) (CA INDEX
NAME)



10/088,059

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